

Release notes for ENDF/B Development n-037\_Rb\_087  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=3731, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=3731, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER    243 TO    286
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=3731, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=3731, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER    243
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3731, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER    288
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER    463
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER    489
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER    515
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 16 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER    530
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 540

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 545

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 557

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 32 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 32  
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 568

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 575

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 590

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 603

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 54 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 54  
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 615

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 55 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 55 | RECORD NUMBER | 626 |
| SECTION 3/ 55 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 56 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 56 | RECORD NUMBER | 637 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 57 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 57 | RECORD NUMBER | 647 |
| SECTION 3/ 57 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT= 91 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 3, MT= 91 | RECORD NUMBER | 657 |
| SECTION 3/ 91 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT=102 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 3, MT=102 | RECORD NUMBER | 666 |
| SECTION 3/102 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT=103 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 3, MT=103 | RECORD NUMBER | 686 |
| SECTION 3/103 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT=104 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 3, MT=104 | RECORD NUMBER | 700 |
| SECTION 3/104 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT=105 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 3, MT=105 | RECORD NUMBER | 713 |
| SECTION 3/105 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 3, MT=107 (0): Directory (b)*

- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=3731, MF= 3, MT=107 |               |     |
|  | SECTION 3/107 NOT IN DIRECTORY            | RECORD NUMBER | 723 |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 2 (0): Directory (b)*
- |  |  |               |     |
|--|--|---------------|-----|
|  | ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 2 |               |     |
|  | SECTION 4/ 2 NOT IN DIRECTORY            | RECORD NUMBER | 739 |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 16 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 16 |               |     |
|  | SECTION 4/ 16 NOT IN DIRECTORY            | RECORD NUMBER | 899 |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 17 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 17 |               |     |
|  | SECTION 4/ 17 NOT IN DIRECTORY            | RECORD NUMBER | 910 |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 22 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 22 |               |     |
|  | SECTION 4/ 22 NOT IN DIRECTORY            | RECORD NUMBER | 921 |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 28 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 28 |               |     |
|  | SECTION 4/ 28 NOT IN DIRECTORY            | RECORD NUMBER | 932 |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 32 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 32 |               |     |
|  | SECTION 4/ 32 NOT IN DIRECTORY            | RECORD NUMBER | 943 |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 51 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 51 |               |     |
|  | SECTION 4/ 51 NOT IN DIRECTORY            | RECORD NUMBER | 954 |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 52 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 52 | RECORD NUMBER | 979 |
| SECTION 4/ 52 NOT IN DIRECTORY            |               |     |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 53 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 53 | RECORD NUMBER | 1004 |
| SECTION 4/ 53 NOT IN DIRECTORY            |               |      |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 54 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 54 | RECORD NUMBER | 1027 |
| SECTION 4/ 54 NOT IN DIRECTORY            |               |      |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 55 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 55 | RECORD NUMBER | 1050 |
| SECTION 4/ 55 NOT IN DIRECTORY            |               |      |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 56 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 56 | RECORD NUMBER | 1073 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 57 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 57 | RECORD NUMBER | 1096 |
| SECTION 4/ 57 NOT IN DIRECTORY            |               |      |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 4, MT= 91 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3731, MF= 4, MT= 91 | RECORD NUMBER | 1119 |
| SECTION 4/ 91 NOT IN DIRECTORY            |               |      |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 5, MT= 16 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3731, MF= 5, MT= 16 | RECORD NUMBER | 1143 |
| SECTION 5/ 16 NOT IN DIRECTORY            |               |      |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 5, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 5, MT= 17  
SECTION 5/ 17 NOT IN DIRECTORY RECORD NUMBER 1187

40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 5, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 5, MT= 22  
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 1203

41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 5, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 5, MT= 28  
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1309

42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 5, MT= 32 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 5, MT= 32  
SECTION 5/ 32 NOT IN DIRECTORY RECORD NUMBER 1393

43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3731, MF= 5, MT= 91 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3731, MF= 5, MT= 91  
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 1421

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 87. L = 0 / STRENGTH FUNCTION IS 1.97253E-04 / STRENGTH FUNCTION 1.97253E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ISOTOPE MASS = 87. L = 0
STRENGTH FUNCTION IS 1.97253E-04
STRENGTH FUNCTION 1.97253E-04
... [1 more lines]
```

2. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 87. L = 1 / STRENGTH FUNCTION IS 4.56816E-05 / STRENGTH FUNCTION 4.56816E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ISOTOPE MASS = 87. L = 1
STRENGTH FUNCTION IS 4.56816E-05
STRENGTH FUNCTION 4.56816E-05
... [1 more lines]
```

3. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04 / STRENGTH FUNCTION 1.60005E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04
STRENGTH FUNCTION 1.60005E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [3 more lines]
```

4. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04 / STRENGTH FUNCTION 1.59995E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04
STRENGTH FUNCTION 1.59995E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [1 more lines]
```

5. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04 / STRENGTH FUNCTION 1.59998E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04
STRENGTH FUNCTION 1.59998E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

6. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04 / STRENGTH FUNCTION 1.60003E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04
STRENGTH FUNCTION 1.60003E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [1 more lines]
```

7. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04 / STRENGTH FUNCTION 1.59999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60005E-04
```



STRENGTH FUNCTION 1.59999E-04  
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04

8. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04 / STRENGTH FUNCTION 1.60002E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04  
STRENGTH FUNCTION 1.60002E-04  
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04  
... [3 more lines]

9. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04 / STRENGTH FUNCTION 1.59999E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04  
STRENGTH FUNCTION 1.59999E-04  
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04  
... [1 more lines]

10. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04 / STRENGTH FUNCTION 1.60001E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04  
STRENGTH FUNCTION 1.60001E-04  
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04  
... [1 more lines]

11. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04 / STRENGTH FUNCTION 1.60000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04  
STRENGTH FUNCTION 1.60000E-04  
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04

12. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04 / STRENGTH FUNCTION 1.59997E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

```

FILE 2
SECTION 151
ENERGY = 1.24600E+04. STRENGTH FUNCTION IS 1.60002E-04
STRENGTH FUNCTION 1.59997E-04
LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04

```

- recent Warnings:

1. Statistical weight of certain L values were incorrect  
*0: RRR goof (a)*

```

Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [470 more lines]

```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination  
*resonances / resolved (Error # 1): missingResonanceChannel*

```

WARNING: Missing a channel with angular momenta combination L = 0, J = 0.0 and S = 0.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 0.0 and S = 1.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.0 and S = 0.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.0 and S = 1.0 for "capture"
... plus 2 more instances of this message

```

2. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

```

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.17%

```

- fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels  
*resonances / resolved / MultiLevel\_BreitWigner (Error # 0): badSpinStatisticalWeights*

```

WARNING: The spin statcal weights for L=1 sums to 1.5, but should sum to 3.0. You have too few channels for re

```

2. Calculated and tabulated Q values disagree.  
*reaction label 9: n[multiplicity:'2'] + Rb86 (Error # 0): Q mismatch*

```

WARNING: Calculated and tabulated Q-values disagree: -9911716.849319458 eV vs -9934090. eV!

```

3. Calculated and tabulated Q values disagree.  
*reaction label 10: n[multiplicity:'3'] + Rb85 (Error # 0): Q mismatch*

```

WARNING: Calculated and tabulated Q-values disagree: -18562719.79112244 eV vs -1.85891e7 eV!

```

4. Calculated and tabulated Q values disagree.  
*reaction label 11: n + H1 + Kr86 (Error # 0): Q mismatch*

```

WARNING: Calculated and tabulated Q-values disagree: -8610816.789520264 eV vs -8626330. eV!

```

5. Calculated and tabulated Q values disagree.  
*reaction label 12: n + H2 + Kr85 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -16242871.47149658 eV vs -1.61835e7 eV!

6. Calculated and tabulated Q values disagree.  
*reaction label 13: Rb88 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 6092899.468170166 eV vs 6077690. eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 14: n + He4 + Br83 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8003402.636932373 eV vs -7992580. eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 15: H1 + Kr87-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -3095642.913711548 eV vs -3106240. eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 16: H2 + Kr86-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -6386250.688583374 eV vs -6316210. eV!

10. Calculated and tabulated Q values disagree.  
*reaction label 17: H3 + Kr85-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -9985638.530883789 eV vs -9998360. eV!

11. Calculated and tabulated Q values disagree.  
*reaction label 18: He4 + Br84-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -1141679.596664429 eV vs -1182480. eV!

• njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*grouppr...compute self-shielded group-averaged cross-sections (0): GROUPE/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*grouppr...compute self-shielded group-averaged cross-sections (1): GROUPE/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 28  
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 32  
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 91  
only mf4/mf5 provided